



10 October 1955

MINO 3	ė.	HYDE	7 132	THE	ALC: OND

SUBJECT: Status of Bole-Orilling Projects as of 5 October 1955

1. The Fourth Monthly Maeting of the Hele-Drilling Committee was held on 5 October 1955. Those present were:

2. The status of the projects at the present time is as follows:

APPLIED PRISIDS DIVISION

25**X**1

25X1

Subject: Mesonry Drilling. Proposel was all-inclusive and not specific.

Status: So report on new proposal.

Membries Original proposal too general.

Betional Buroom of Standards

Subject: Wall-thickness Measurement Sauge. Peasibility of Ultrascale measurement and type of equipment which might be used.

Status: Proposel accepted and work now in progress. Final results expected in 3-4 months.

Hemarks: Thiskness gauge - unable to find any correlation between well thiskness and resusance. They are investigating pulse-gauging, and will try low-frequencies between 10 and 15 evelow. All bee been asked to collaborate with

utilizing back-ecuttoring of mentrons.

25X1

CHEMICAL DIVISION

DOG 14 REV DATE 22 JULY 80 BY 057447

ORIG COMP 056 OPI 56 TYPE 03

ATIG CLASS S PAGES 9 REV CLASS 25V

and class S pages F REV CLASS 25X1

ST 22 NEXT REV 20/0 AUTH: HR 14-2

Subjects Wall-thickness measurement.

Status: Feasibility study and calculations now undersay.

Romarks: Will collaborate with provide electronic equipment.

\$.e.

25X1

SEADER CO

Declassified in Part - Sanitized Copy Approved for Release 2012/04/10 : CIA-RDP78-03172A000300050014-0

CHEMICAL DIVISION (Cont'd)

Status: Ammical decomposition of concrete and morter.

Reserve: This company does contract research work on coment and concrete chamistry.

Subject: Chemical decomposition of concrete and morter.

Status: Awaiting security approval.

Somerke: These companies do contract research work on cement and concrete chemistry.

PRIMERING DIVISION

25X1

25X1

25X1

Subject: Digging and drilling program.

drill bits and types of stone.

Ammarks: A hand-held unit has been designed and tested. In concrete, five nimites were required to drill 30 inches with a 5/16 drill. The rotary drill was tried on granite (a homoring action is resommended) and 3 was the maximum depth obtainable before dulling caused drill to stop cutting.

Subject: Pipe Pusher Fragress.

Status: The proposal has been accepted and the contract is being written. Asserte: This project should not be confused with the small trench disperused for laying wires in the ground. The pipe pusher will be used for laying wires under sidewalks etc. up to 30 inches in width.

25X1

Subjects Proguent covers a general study of the present state of the ert and socialeration of new methods of wall penetration. Suggests work ons (a) Supersonic Arillings (b) Set of abrasive particle in liquid air; (e) Author bit impregnated with dismonds - 49754 - 6 months.

status: Proposal has been assepted and the contract is being regotisted by Logistics.

Asserts: They will work on two approaches to milent drilling. (1) attempt to produce drilling bits which are designed primarily for quiet operation rather than the usual escenario considerations. (2) Investigate the drilling possibilities of high velocity abresive partiales.

金田田

ENGINEERING DIVISION (Cont'd)

Subject: Proposal covers a first phase for: (a) Murvey of commercial equipment; (b) Tests of borrowed commercial equipment to determine what could be used and what should be developed for our purposes; (a) Reports of results and recommendations - \$4500 - 4 months.

Status: Proposal has been accepted and contract is being negotiated.

Assarks: The primary emphases will be placed on developing a bicycletype power source with the chances being good that a crude prototype may
be built.

25X1

25X1

Subject: The proposal cover the construction of a testing facility to consist of a building (10' x 20') with heat and power. Test walls would be constructed inside the building in order to simulate drilling in a room. Sound level measuring equipment and 20 weeks of testing are included - \$17,000 - 1 year.

Status: A second proposal has been requested and should arrive shortly.

Descript A test facility will be set up to include a number of different types of walls to compare panetration methods and thickness gauges. Samples have been obtained for use as guides in construction of walls.

25X1 25X1

Subject: Silent alternating oursent drives and manual drives.

Status: This proposal is still held up by lack of personnel electronees.

25X1

Subjects General proposal.

Status: Their proposal has been received.

hemorie: The proposal is very general. Since the drilling progrem is pretty well rounded, we will not ask to work on it right now. They will 25X1 be contacted again if new approaches develop.

25X1

25X1

Subject: Explosive projectile such as used by compenters to mail lumber to concrete.

Status: did not submit a proposal because they did not believe that the stud driver principle was feasible for deep hole penetration.

Amenical They have been contacted again and asked to reconsider the problem and let us know what would be the maximum possible depth.

- 3 -

incurrical services lab.

Subjects Softening of concrete. Status: Pessibility tests and studies. Remarks: TSL will test theory that concrete can be actioned by subjecting it to sudden extremes of temperature.

Stendard Drilling Equipment obtained from Sears Roebuck Asmarks: Investigating methods to silence this equipment.

Bubject: Flaster Brill Status: Work in progress. Tests should be conducted soon. Benerics: Til is investigating the best speeds and techniques for a high apood drill to penetrate plaster without chipping.

25X1

788/Chemical Distatuc

Distributions

- 1 AC/PSS/HAD
- 1 C/TOS/ASD
- 1 C/TES/ED
- 1 2/T08/TGL
- 1 C/768/APD
- 2 TSG/CD